

CUMBERLAND RIVER BASIN

03432387 SOUTH PRONG SPENCER CREEK NEAR FRANKLIN, TN

LOCATION.--Lat 35°56'38", long 86°49'35", Williamson County, Hydrologic Unit 05130204, on left upstream side of the bridge on Cool Spring Blvd., 1.7 miles northeast of Franklin, Tennessee.

DRAINAGE AREA.--2.66 mi².

PERIOD OF RECORD.--June 2000 to October 2005 (discontinued).

GAGE.--Data logger.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, gage height, 11.35 ft, Oct. 19; minimum daily discharge, 0.13 ft³/s, Aug. 12, 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.38	1.8	38	4.0	4.0	5.9	34	4.0	2.6	1.5	0.19	3.7
2	0.42	1.7	20	3.9	4.9	4.9	24	3.2	2.0	1.3	0.18	2.9
3	0.38	e2.0	12	3.6	4.7	4.4	14	2.8	2.0	1.2	0.16	2.2
4	0.35	e8.0	8.4	3.3	4.3	4.1	9.3	2.5	1.7	1.2	0.15	2.0
5	0.35	e2.6	8.3	3.3	4.1	3.8	6.9	2.3	1.6	1.1	0.14	1.8
6	0.31	e2.1	15	5.7	3.8	3.6	13	2.2	1.6	1.1	0.15	1.6
7	0.27	e1.8	69	31	5.9	3.9	27	2.0	1.5	1.1	0.17	1.6
8	0.34	e1.5	24	31	6.9	3.7	32	1.9	2.3	1.1	0.16	1.5
9	0.32	e1.3	51	17	5.8	3.2	17	1.9	1.5	1.0	0.16	1.4
10	0.31	e1.2	26	12	5.1	3.0	10	1.8	1.4	0.99	0.15	1.3
11	0.31	e1.5	16	12	4.7	3.0	7.7	1.9	3.2	2.8	0.14	1.3
12	14	e1.6	11	9.2	4.4	2.8	6.3	1.8	6.4	1.6	0.13	1.3
13	1.8	e1.2	8.4	27	7.6	2.7	5.7	1.7	3.0	3.2	0.14	1.2
14	1.2	e1.1	6.7	21	7.3	2.6	4.6	2.3	2.3	4.2	0.13	1.2
15	0.87	e1.1	5.7	14	6.2	2.6	4.0	1.7	1.9	5.4	1.1	e1.6
16	0.73	e1.1	5.0	10	5.6	3.0	3.6	1.7	1.7	2.7	0.42	e2.5
17	0.66	1.0	4.5	7.9	5.0	2.7	3.3	1.6	1.5	2.1	0.41	2.2
18	7.2	0.98	4.0	6.6	4.7	2.5	2.9	1.6	1.4	1.8	0.32	1.8
19	e92	1.0	3.7	5.8	4.3	2.4	2.7	3.0	1.4	5.8	0.26	1.6
20	23	0.97	3.4	5.2	22	2.4	2.5	2.1	1.3	1.0	0.22	1.5
21	9.7	0.90	3.2	4.8	22	2.3	2.4	1.7	1.2	0.69	0.20	1.4
22	7.3	0.90	27	4.4	14	4.3	4.7	1.6	1.2	0.70	0.18	1.4
23	5.4	4.6	40	4.0	10	23	2.7	1.5	1.2	0.57	0.17	1.3
24	4.2	43	17	3.7	8.2	8.2	2.5	1.5	1.1	0.41	0.15	1.3
25	3.2	11	11	3.4	6.7	6.4	2.3	1.5	1.1	e1.6	3.3	5.3
26	2.7	5.5	8.4	3.3	5.8	5.5	2.6	1.4	1.1	e1.5	0.75	4.5
27	2.6	5.0	6.8	3.1	5.1	8.8	2.3	1.4	1.1	e1.4	0.51	2.6
28	2.6	3.6	5.8	3.3	7.7	12	3.2	1.4	2.2	e1.3	0.61	2.1
29	2.6	3.9	5.2	6.3	---	9.3	3.3	1.4	2.8	0.23	0.64	2.0
30	2.6	102	4.7	4.8	---	8.2	9.5	1.4	1.6	0.20	34	1.7
31	2.5	---	4.3	4.4	---	30	---	1.3	---	0.19	5.9	---
TOTAL	190.60	215.95	473.5	279.0	200.8	185.2	266.0	60.1	56.9	50.98	51.29	59.8
MEAN	6.15	7.20	15.3	9.00	7.17	5.97	8.87	1.94	1.90	1.64	1.65	1.99
MAX	92	102	69	31	22	30	34	4.0	6.4	5.8	34	5.3
MIN	0.27	0.90	3.2	3.1	3.8	2.3	2.3	1.3	1.1	0.19	0.13	1.2
CFSM	2.31	2.71	5.74	3.38	2.70	2.25	3.33	0.73	0.71	0.62	0.62	0.75
IN.	2.67	3.02	6.62	3.90	2.81	2.59	3.72	0.84	0.80	0.71	0.72	0.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	2.32	4.15	7.45	6.00	12.1	7.28	5.06	6.21	3.09	1.30	1.29	1.96
(WY)	(2005)	(2005)	(2005)	(2005)	(2003)	(2002)	(2005)	(2003)	(2003)	(2004)	(2004)	(2003)
MAX	6.15	7.20	15.3	9.00	20.1	14.8	8.87	13.3	6.23	3.19	3.51	5.36
(WY)	(2001)	(2003)	(2004)	(2003)	(2002)	(2003)	(2001)	(2005)	(2000)	(2000)	(2000)	(2000)
MIN	0.06	2.87	3.85	2.58	4.41	3.85	1.51	1.94	0.95	0.16	0.27	0.30

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2000 - 2005
ANNUAL TOTAL	2,363.11	2,090.12	
ANNUAL MEAN	6.46	5.73	
HIGHEST ANNUAL MEAN			4.91
LOWEST ANNUAL MEAN			5.75
HIGHEST DAILY MEAN	160	Feb 5	2003
LOWEST DAILY MEAN	0.27	Oct 7	2001
ANNUAL SEVEN-DAY MINIMUM	0.32	Oct 5	
MAXIMUM PEAK FLOW		unknown	
MAXIMUM PEAK STAGE		11.35 Oct 19	11.35
ANNUAL RUNOFF (CFSM)	2.43	2.15	1.85
ANNUAL RUNOFF (INCHES)	33.05	29.23	25.07
10 PERCENT EXCEEDS	13	12	10
50 PERCENT EXCEEDS	2.6	2.6	2.2
90 PERCENT EXCEEDS	1.1	0.42	0.37

a Many days in 2000 and 2001 water year.

e Estimated

